

What Is Claimed Is:

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1. A method of driving a liquid crystal display,
comprising:

modulating source data using registered data previously
provided and supplying the modulated source data to a display
panel at an initial period of one frame interval; and

applying a black voltage as black data to the display panel
for at least a portion of the rest period of the frame, the black
voltage allowing a black picture to be displayed on the display
panel.

2. The method according to claim 1, further comprising
applying the source data to the display panel in such a manner
that the source data are positioned between the modulated data
and the black data.

3. The method according to claim 1, wherein the modulated
source data include most significant bits of the source data.

4. The method according to claim 1, wherein the modulated source data include entire bits of the source data.

5. The method according to claim 1, further comprising alternatively switching the modulated source data and the black data to apply to the display panel.

6. The method according to claim 1, further comprising sequentially switching the modulated source data, the source data, and the black data to apply to the display panel.

7. The method according to claim 1, further comprising delaying the source data during applying the modulated data and the black data to the display panel.

8. An apparatus for driving a liquid crystal display, comprising:

a modulator modulating source data using registered data previously provided and supplying the modulated source data to a display panel at an initial period of one frame interval; and

a black voltage generator generating a black voltage as black data to apply to the display panel for at least a portion of the rest period of the one frame interval, the black voltage allowing a black picture to be displayed on the display panel.

9. The apparatus according to claim 8, further comprising a source data provider providing the source data to the display panel in such a manner that the source data are positioned between the modulated source data and the black data.

10. The apparatus according to claim 8, wherein the modulator modulates most significant bits of the source data.

11. The apparatus according to claim 8, wherein the modulator modulates entire bits of the source data.

12. The apparatus according to claim 8, further comprising a switch alternatively switching the modulated source data and the black data to apply to the display panel.

13. The apparatus according to claim 8, further comprising a switch sequentially switching the modulated source data, the source data, and the black data to apply to the display panel.

14. The apparatus according to claim 8, further comprising a delay circuit delaying the source data while the modulated data and the black data are applied to the display panel.

15. The apparatus according to claim 12, further comprising:

a data driver applying the modulated source data and the black data from the switch to the display panel;

a scanning driver applying a scanning signal to the display panel; and

a timing controller applying the source data to the switch and controlling the data driver, the scanning driver, and a switching time of the switch.

16. The apparatus according to claim 13, further comprising:

a data driver applying the modulated source data, the source data, and the black data from the switch to the display panel;

a scanning driver applying a scanning signal to the display panel; and

a timing controller applying the source data to the switch and controlling the data driver, the scanning driver, and a switching time of the switch.

17. The apparatus according to claim 12, wherein the black data are applied at about $1/2$ of the one frame interval.

18. The apparatus according to claim 13, wherein the source data and the black data are applied at about $1/3$ and $2/3$ of the one frame interval, respectively.

19. A liquid crystal display comprising:

a liquid crystal display panel displaying images;

a data modulator modulating source data using previously provided registered data and supplying the modulated source data

to the liquid crystal display at an initial period of one frame interval;

a black voltage generator generating a black voltage as black data allowing a black picture on the display panel at least for a portion of the rest period of the one frame interval;

a switch sequentially switching at least the modulated source data and the black data;

a data driver applying the modulated source data and the black data from the switch to the liquid crystal display panel;

a scanning driver applying a scanning signal to the liquid crystal display panel; and

a timing controller applying the source data to the switch and controlling the data driver, the scanning driver, and a switching time of the switch.

20. The liquid crystal display according to claim 19, wherein the source data are switched by the switch between the source data and the black data, so that the source data are applied between the source data and the black data.